



August 10, 2004

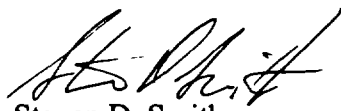
Mr. Nabil S. Fayoumi  
U. S. EPA - Region 5  
77 West Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

**Re: Sauget Sites Area I - January 21, 1999 Administrative Order by Consent (AOC)  
Monthly Report July 1 – July 31, 2004**

Dear Mr. Fayoumi,

Enclosed is the Sauget Sites Area I Monthly Report for the July 2004 reporting period. This submittal is in fulfillment of the monthly requirements of Section 2.4 Reporting, of the January 21, 1999 Final Administrative Order by Consent for Sauget Sites Area I, Sauget and Cahokia, Illinois.

Sincerely,



Steven D. Smith  
Project Coordinator

cc: Kevin Turner – USEPA  
Tim Gouger - USACE  
Sandra Bron - IEPA  
Dave Webb - IDPH  
Mike Coffey - USF&W  
Richard Williams - Solutia  
Cathleen Bumb - Solutia  
Mayor Frank Bergman - Cahokia, IL  
Village of Sauget - c/o P. H. Weis & Associates (Attn: Brian Nelson)  
Mayor R. Sauget - Sauget, IL  
L. Glen Kurowski - Monsanto

EPA Region 5 Records Ctr.



226636

## **Sauget Sites Area I - Sauget, Illinois**

### **AOC - EECA / RIFS**

#### **Status Report**

**Date of Report:** August 10, 2004  
**Period Covered:** July 1, 2004 - July 31, 2004

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#### **Work Performed during the Reporting Period**

##### **Borrow Pit Lake**

No work was performed on the Borrow Pit Lake during the reporting period.

##### **Dead Creek**

No work was performed during the reporting period.

##### **DNAPL Investigation**

The final DNAPL Investigation Work Plan was submitted to the Agencies on April 20, 2004. The scheduled date for completion of the study, originally set for June 23, 2004 was revised to December 17, 2004.

Field work began on Task 2 of the Work Plan on May 10, 2004. This task required the surveying of approximately 57 existing wells for the presence of NAPL and, if detected, the sampling of any such material. Of the original 57 wells designated for inspection and survey, 54 were found to be usable. One well had been destroyed and two wells were damaged to the extent that downhole tools could not be used in the wells. The well survey was completed on May 20, 2004.

Non-aqueous phase liquids were detected in three of the 54 wells. One of these wells, well EE-11 on Site G, contained approximately 8.7 feet of LNAPL, while the other two wells (bedrock wells BR-G at Site G and BR-I at Site I) contained some evidence of the presence of DNAPL. Dark brown spots and minor discontinuous brown staining were noted on the bottom few feet of a weighted cotton string lowered to the bottom of these wells. A bailer lowered to the bottom of BR-G did not contain any DNAPL, while approximately 1/8 inch of DNAPL was present in a bailer lowered to the bottom of BR-I.

Field activities for Task 3, the seismic reflection survey, began on June 7 and were completed on June 30. Limited clearing operations at Site G along the pathways of the seismic survey grid were necessary because the site is heavily vegetated. The clearing operations were conducted between June 24<sup>th</sup> and June 26<sup>th</sup>. During the work, the contractor encountered two very small areas with surficial waste materials and reported this finding to Solutia. Solutia representatives inspected the areas and discussed the findings with the Agency. It was agreed that the waste materials would be sampled and that a temporary cover would be placed over the areas. Samples were obtained on July 1<sup>st</sup> and the unvalidated results of the chemical analyses were reported to the Agency on July 29, 2004. The data are being validated and the validated results will be submitted once available. The temporary covers were constructed on July 7<sup>th</sup> and July 8<sup>th</sup>. Both covers consist of a synthetic membrane covered by approximately one foot of clean soil.

The data processing and preliminary interpretation of the bedrock surface topography will be available in early August. Once that is available, a summary report of the investigation and a proposed piezometer installation plan will be submitted to the Agency for approval. The report will include an evaluation of the field notes from an investigation carried out in 1999 that were used by the Corps of Engineers (COE) to construct a table showing that DNAPL was widespread throughout Sauget Area 1. The notes will be reviewed in order to estimate the reliability of the field measurements and, hence, the validity of the conclusions formulated by the COE.

### **Attachments**

There are no Technical Memoranda or data submitted with this report.

### **Work Scheduled for Next Reporting Period**

- Validate the analytical results from the samples of waste materials uncovered during the clearing operations on Site G. Submit the validated results to EPA.
- Reduction and interpretation of the geophysical data.
- Preparation and submission of a summary report on the results of the geophysical survey, including a proposal for the locations of additional wells and borings necessary to complete the DNAPL investigation.
- Obtain EPA approval of this proposed plan.

### **Submittal Schedule Status**

The submittals planned for the next reporting period are:

- The validated results of the analyses of the waste samples obtained on Site G.
- The summary report on the geophysical survey.
- The proposed locations of additional wells and piezometers necessary to complete the DNAPL investigation.